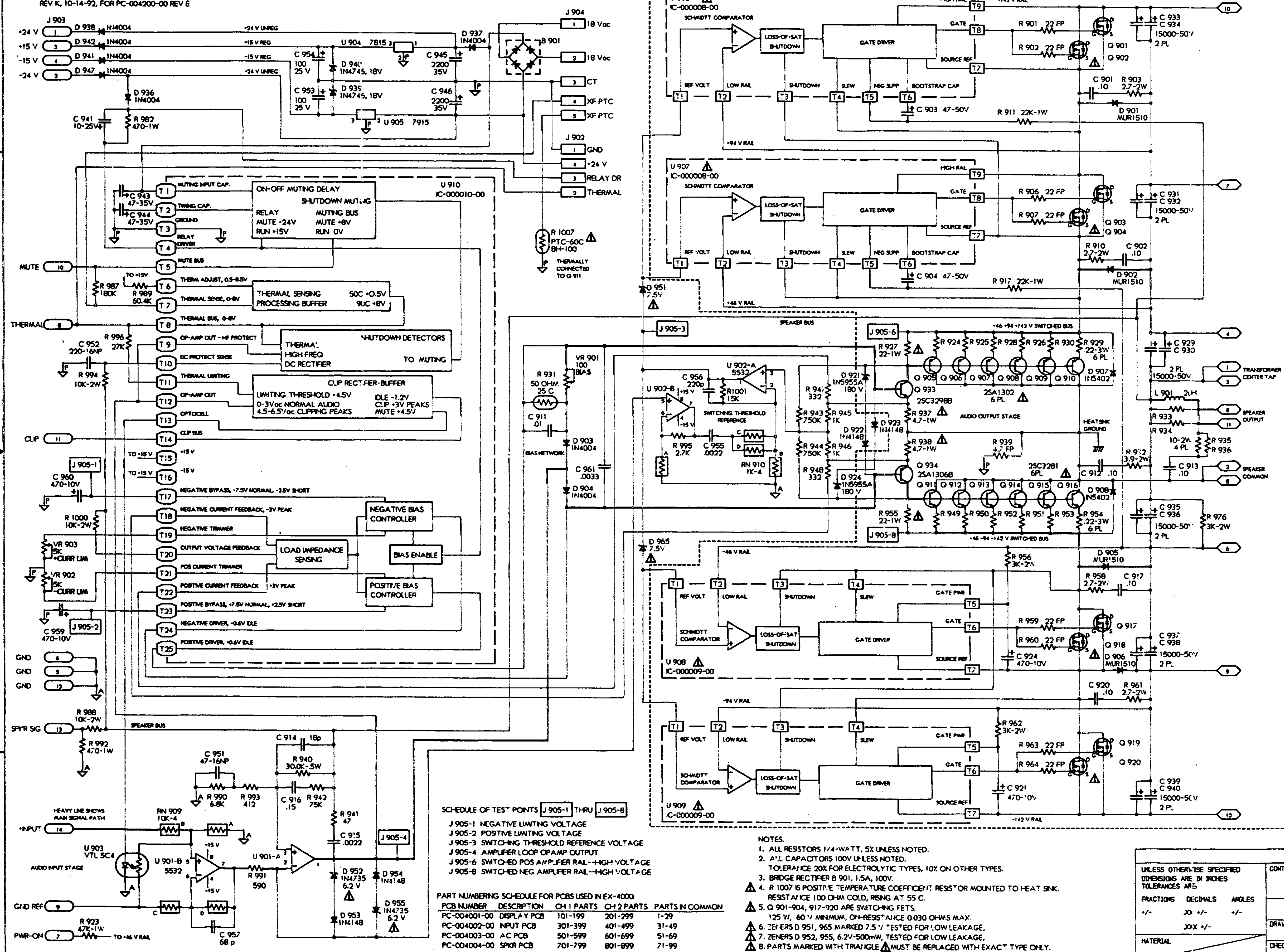
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# SCHEMATIC, AMPLIFIER CHANNEL, MPA 1100

REV K, 10-14-92, FOR PC-004200-00 REV E




SCHEDULE OF TEST POINTS J 905-1 THRU J 905-8

J 905-1 NEGATIVE LIMITING VOLTAGE
J 905-2 POSITIVE LIMITING VOLTAGE
J 905-3 SWITCHING THRESHOLD REFERENCE VOLTAGE
J 905-4 AMPLIFIER LOOP OPAMP OUTPUT
J 905-6 SWITCHED POS AMPLIFIER RAIL--HIGH VOLTAGE
J 905-8 SWITCHED NEG AMPLIFIER RAIL--HIGH VOLTAGE

PART NUMBERING SCHEDULE FOR PCBS USED IN EX-4000:

| PCB NUMBER | DESCRIPTION | CH 1 PARTS | CH 2 PARTS | PARTS IN COMMON |
|---|---|---|---|---|
| PC-004001-00 | DISPLAY PCB | 101-199 | 201-299 | 1-29 |
| PC-004002-00 | INPUT PCB | 301-399 | 401-499 | 31-49 |
| PC-004003-00 | AC PCB | 501-599 | 601-699 | 51-69 |
| PC-004004-00 | SPKR PCB | 701-799 | 801-899 | 71-99 |
| PC-004200-00 | AMP CHANNEL | 901-UP (SAME BOARD FOR CH 1, CH2) | | |

NOTES.

1. ALL RESISTORS 1/4-WATT, 5% UNLESS NOTED.
2. ALL CAPACITORS 100V UNLESS NOTED. TOLERANCE 20% FOR ELECTROLYTIC TYPES, 10% ON OTHER TYPES.
3. BRIDGE RECTIFIER B 901, 1.5A, 100V.
4. ⚠ R 1007 IS POSITIVE TEMPERATURE COEFFICIENT RESISTOR MOUNTED TO HEAT SINK. RESISTANCE 100 OHM COLD, RISING AT 55 C.
5. ⚠ Q 901-904, 917-920 ARE SWITCHING FETS. 125 W, 60 V MINIMUM, ON-RESISTANCE 0.030 OHMS MAX.
6. ⚠ ZENERS D 951, 965 MARKED 7.5 V TESTED FOR LOW LEAKAGE,
7. ⚠ ZENERS D 952, 955, 6.2V-500mW, TESTED FOR LOW LEAKAGE,
8. ⚠ PARTS MARKED WITH TRIANGLE ⚠ MUST BE REPLACED WITH EXACT TYPE ONLY.
9. PARTS ENCLOSED WITHIN DOTTED OUTLINE ------ HAVE VOLTAGES GREATER THAN 42V.

DWG NO. SH-004000-00 SH 1 REV M

REVISIONS

| ZONE | REV | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|---|
| | A | PROD. REL. PER ECO 762 | 7-2-90 | |
| | B | PROD. REL. PER ECO 789 LG | 8-22-90 | |
| | C | PER REL. PER ECO 885 GLF | 1-8-91 | |
| | D | PER REL. PER ECO 1040 GLF | 3-21-91 | |
| | E | PER REL. PER ECO 1095 GLF | 6-10-91 | SGM |
| | F | REVISED PER PER ECO 1198 WR | 8-9-91 | SGM |
| | G | REVISED PER ECO 1262 LG | 10-9-91 | SGM |
| | H | REVISED PER ECO 1290 PHQ | 11-6-91 | SGM |
| | J | REVISED PER ECO 1367, R 987 PHQ | 1-27-92 | SGM |
| | K | REVISED PER ECO 1462, R 996, R991, U903 SGM | 10-14-92 | SGM |
| | L | REVISED PER ECO 1692, R 989 WR | 12-15-92 | SGM |
| | M | REVISED PER ECO 1724 LG | 1-29-93 | sgm |

FEB 02 1993

PARTS LIST

| | | | |
|---|---|---|---|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE<br>FRACTIONS +/- DECIMALS .XX +/- .XXX +/- ANGLES +/- | CONTRACT NO. | | JBL Professional Products, Northridge, California |
| | APPROVALS | DATE | SCHEMATIC MPA - 1100 AMPLIFIER CHANNEL |
| MATERIAL | DRAWN PHQ | 6-19-90 | |
| | CHECKED | | |
| FINISH | ISSUED | | SIZE D, FSCM NO., DWG NO. SH-004000-00, REV M |
| DO NOT SCALE DRAWING | SH4000L1.FCD | | SCALE 0.875, SH4000M1.FCD, SHEET 1 OF 1 |